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Cisco 300-445 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Data Analysis: This domain encompasses diagnosing network issues like packet loss, congestion, routing, and jitter, plus end-device problems. It includes analyzing web application performance and identifying security threats such as DDoS attacks, DNS hijacking, and BGP hijacking.
Topic 2	<ul style="list-style-type: none">• Platforms and Architecture: This domain covers understanding monitoring agent types and placement, active versus passive monitoring, and ThousandEyes WAN Insights. It addresses Cisco platform integrations, metric baselines, and selecting appropriate integration methods and assurance platforms based on business requirements.

Topic 3	<ul style="list-style-type: none"> Insights and Alerts: This domain addresses configuring alert rules based on network conditions and end-user experience factors. It covers selecting metrics for stakeholders, validating alerts, and recommending network optimization for capacity planning.
Topic 4	<ul style="list-style-type: none"> Data Collection Implementation: This domain focuses on deploying enterprise and endpoint agents across infrastructure and end-user devices. It covers configuring network, DNS, voice, web, and endpoint tests using ThousandEyes and Meraki Insights, along with implementing synthetic web tests and authentication methods.

Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q55-Q60):

NEW QUESTION # 55

An engineer needs to create a test that requires authentication configuration to monitor an API.

The test must send a POST request with client credentials parameters to get a token. The token then needs to be sent out on a GET request to be authorized to get the resource. What must be done to meet the requirements? (Choose two)

The screenshot shows the configuration for an HTTP test. The 'Scheme' is set to 'None'. Under 'HTTP REQUEST', 'HTTP Version' is 'Prefer HTTP/2', 'Request Method' is 'POST', and 'Follow Redirects' is checked. The 'User Agent' is 'Default'. There is a 'Custom Headers' section at the bottom.

- A. Parameters are not supported by HTTP server OAuth authentication; use an API test instead
- B. Configure the HTTP server test to use NTLM authentication for client credentials
- C. Configure the HTTP server test to use OAuth authentication for client credentials
- D. Configure the HTTP server test to use Basic authentication for client credentials
- E. Parameters are not supported by HTTP server OAuth authentication; use a Transaction script instead

Answer: A,E

Explanation:

In the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) curriculum, monitoring modern APIs often requires handling complex authentication flows, such as OAuth 2.0 with specific client credential parameters. The provided exhibit illustrates the HTTP Authentication options available within a standard HTTP Server test: None, Basic, NTLM, Kerberos, and OAuth.

According to the ENNA implementation standards, while the HTTP Server test type supports OAuth (Option C), its native implementation is limited. Specifically, it is designed to use a pre-existing token or a simple token refresh flow; it does not support the injection of custom parameters in the initial POST request required to obtain a token in many enterprise client-credential scenarios. Basic and NTLM (Options A and B) are legacy protocols that rely on simple username/password headers and cannot facilitate the multi-step token exchange process described.

To fulfill the requirement of a two-step flow (POST for token, followed by GET for resource), engineers must use more flexible test types:

Transaction scripts (Option D): These allow the engineer to write custom JavaScript using the ThousandEyes transaction library to programmatically handle the POST request, parse the resulting JSON token, and then pass that token into the subsequent GET request's header.

API tests (Option E): These are purpose-built for API monitoring and natively support the definition of variables and multi-step requests where the output of one call (the token) serves as the input for the next.

By utilizing these advanced test types, the engineer can successfully navigate complex authentication requirements that the standard HTTP Server test cannot accommodate.

NEW QUESTION # 56

How can collected data in network assurance be used to diagnose VPN gateway issues?

- A. By identifying latency spikes
- B. By monitoring real-time traffic
- C. By detecting connection failures
- D. By analyzing server logs

Answer: C

Explanation:

Collected data can be used to diagnose VPN gateway issues by detecting connection failures and analyzing VPN tunnel performance in network assurance.

NEW QUESTION # 57

A network engineer wants to measure their SD-WAN performance metrics. Which agent deployment method is most suitable for this scenario?

- A. Install an agent on the overlay network
- B. Install an agent on their LAN
- C. Install an agent on the underlay network
- D. Install an agent on the DMZ

Answer: C

Explanation:

In the context of Designing and Implementing Enterprise Network Assurance (300-445 ENNA), understanding the visibility gap in SD-WAN environments is essential. While SD-WAN controllers provide native visibility into the overlay network (the logical IPsec tunnels and fabric health), they often lack granular insight into the physical transport or underlay network provided by ISPs or MPLS circuits.

According to the ENNA architecture guidelines, the most suitable method for measuring true SD-WAN performance is to install an agent on the underlay network (Option D). By deploying ThousandEyes Enterprise Agents directly on the transport-facing interfaces (Transport VPN0 in Cisco SD-WAN terminology), engineers can perform hop-by-hop path visualization and measure metrics like packet loss, latency, and jitter across the actual provider path. This is critical because performance degradation in the overlay is almost always a symptom of an issue in the underlay, such as BGP routing instabilities or physical link congestion at an ISP peering point.

Deploying agents on the overlay (Option A) only measures the performance of the tunnel itself, which may hide specific hop-level failures occurring in the public internet. Installing an agent on the LAN (Option C) or DMZ (Option B) adds local network noise to the metrics, making it harder to isolate if a problem exists within the corporate office or the service provider network. By focusing on the underlay, the engineer ensures they have the "internet intelligence" required to hold service providers accountable to SLAs and quickly resolve connectivity issues that impact the SD-WAN fabric.

NEW QUESTION # 58

Which web authentication method is commonly used when testing web applications for network assurance?

- A. OAuth
- B. RADIUS
- C. SSO
- D. LDAP

Answer: C

Explanation:

Single Sign-On (SSO) is a commonly used web authentication method when testing web applications for network assurance, ensuring secure and streamlined access.

NEW QUESTION # 59

What is an important consideration when choosing a time period for collecting data to establish a baseline for interface utilization on a critical network link?

- A. Ensuring the time period aligns with the organization's financial year.
- B. Capturing both peak and off-peak traffic patterns for a representative view.
- C. Selecting the time period with the lowest network traffic volume.
- D. Limiting the time period to minimize the amount of data that needs to be analyzed.

Answer: B

Explanation:

Establishing an accurate baseline is a cornerstone of the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) methodology. A baseline must represent the "typical" behavior of the network across its standard operating cycle to be useful for anomaly detection and capacity planning. When monitoring interface utilization on a critical link, it is vital to capture both peak and off-peak traffic patterns (Option C).

Most enterprise networks exhibit cyclical traffic patterns, often referred to as "diurnal" cycles, where utilization spikes during business hours (peak) and drops significantly at night or on weekends (off-peak). If an engineer only collects data during the lowest volume period (Option A), the baseline will be unrealistically low, leading to "false positive" alerts when normal business traffic returns.

Conversely, only capturing peak data might hide background synchronization tasks or backup windows that occur during off-hours. By selecting a representative time period—typically one full week or a month—the engineer ensures the baseline accounts for variations such as Monday morning "logon storms," mid-week steady states, and weekend maintenance. This comprehensive view allows the assurance platform (such as Cisco Catalyst Center or ThousandEyes) to calculate a standard deviation and establish dynamic thresholds. If utilization deviates from these historically representative norms, the system can trigger an alert based on a true anomaly rather than a predictable daily surge. Aligning with a financial year (Option B) is irrelevant to technical performance, and limiting the data (Option D) compromises the baseline's statistical validity.

NEW QUESTION # 60

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